Bruhat Bangalore Mahanagara Palike
Excecutive Engineer Dasarahalli Division

Name of Work: Improvements and Asphalting to AGB Layout 80 feet road and Northern side cross roads in ward No 12, Shettyhalli Sub Division

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	Civil Work								
1	KSRRB 300-1. **Earthwork excavation by manual means for roads,** drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications 10km lead= 57+2.0x1.28x10 =82.60								
	CC Drain								
	AGB Layout Mn Rd from Hesarghatta Rd (80feet Road)	2	328.00	1.20	0.90	708.48			
	For Shoulder Drain	28	2.10	0.60	0.50	17.64			
						726.12	**Cum**	**220.40**	**160036.85**
2	KSRRB M2100-10. Providing and laying **Plain cement concrete of mix 1:3:6** with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications. (P.No-222,I No-27.18)								
	CC Drain								
	AGB Layout Mn Rd from Hesarghatta	2	328.00	1.20	0.15	118.08			
	For Shoulder Drain	28	2.10	0.60	0.15	5.29			
						123.37	**Cum**	**5421.90**	**668910.65**
3	Providing and laying **plain/reinforced cement concrete for side drains using M20** nominal mix concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200. including cost of materials, labour, HOM complete as per specificationsdo- Wall & bottom thickness 15cm (I No-37.59.2,P No-271)								
	CC Drain								
	AGB Layout Mn Rd from Hesarghatta	2	328.00	0.90	0.15	88.56			
	CC Drain Wall								
	AGB Layout Mn Rd from Hesarghatta	4	328.00	0.15	0.60	118.08			
						206.64	**Cum**	**7070.20**	**1460986.13**
4	KSRB 4.9.2 : Providing **T.M.T steel reinforcement** for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specifications. Specificatio(I No-28.8.2,P No-229)								
	Consider 75kg/Cum	1	206.64	75.00		**15498.00**			
						15.50	**Tn**	**72326.98**	**1120923.54**

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
5	KSRB 5-12: Providing and constructing **load bearing wall with cement concrete cavity blocks** (Hollow blocks) Grade B having a minimum face shell thickness of 30mm and web thickness of 25mm with block density between 1100kg/m3 and 1500kg/m3 having a minimum average compressive strength not less than 3.5 N/mm2 confirming to IS 2185 (Part 1):2005 and constructed with CM 1:4, as per IS 2572:2005 including cost of all materials, labour charges, scaffolding, curing, hire charges of machineries etc., complete as per specifications. - do - with cement concrete cavity blocks (Hollow blocks) of size 400x200x200mm(I No-5.25.1,P No-26)								
	For Shoulder Drain	28	2.10		0.40	23.52			
						23.52	**Sqm**	**970.96**	**22,836.98**
6	Providing and Fixing **pre cast covering Slab** made out of CC 1:2:4 with 10cm thick and Finishing cutting ,including form work,curing,including cost of alll materials, labour,hire charges of machinery,loading,unloading,lead and lift,transportation etc ,copmplete. (Data Rate)								
	CC Drain								
	AGB Layout Mn Rd from Hesarghatta	2	328.00	0.90		590.40			
	For Shoulder Drain	28	2.10	0.60		35.28			
						625.68	**Sqm**	**2208.00**	**1381501.44**
7	Providing and fixing pre cast solid **cement concrete kerb stones** made out of CC 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation ete.,complete.(I No-5.30,P No-27,KPWD SR 2018-19)								
	AGB Layout Mn Rd from Hesarghatta Rd (80feet Road)	2	415.00			830.00			
	For Median	2	415.00			830.00			
						1660.00			
	Length/Length of Kerb= No of Kerb					**3689.00**			
						3689.00	**Nos**	**432.48**	**1595418.72**
8	KSRRB 800-1. **Painting two coats after filling the surface** with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications.(I No-24.1,P No-180,KPWD SR 2018-19)								
	Andrahalli Main Road Frm Govt School to Nice Road								
	AGB Layout Mn Rd from Hesarghatta Rd (80feet Road)	2	415.00		0.30	249.00			
	For Median	2	415.00		0.30	249.00			
						498.00	**Sqm**	**84.80**	**42,230.40**
9	KSRRB 300-45. **Scarifying by manual means stone metal crust 50mm to 100mm** thick along with premix carpet / surface dressing and stacking of old serviceable materials including cost of all labour charges complete as per specifications. (I No-19.51,P No-146)								
	AGB Layout Mn Rd from Hesarghatta Rd (80feet Road)	2	426.00	7.50		6390.00			
						6390.00	**Cum**	**84.80**	**541872.00**

No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
10	KSRRB 300-58. **Compaction of original ground** by mechanical means including filling in depression occuring during rolling including cost of all labour, HOM complete as per specifications (I No-19.64,P No-147)								
	AGB Layout Mn Rd from Hesarghatta Rd (80feet Road)	2	426.00	7.50		6390.00			
	1st Cross frm AGB Layout mn (RHS Up to Dead End)	1	35.00	10.00		350.00			
						6740.00	**Sqm**	**6.36**	**42,866.40**
11	Construction of **granular sub-base Grading-V** as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/ trap/basalt material, mixing in a mechanical mix plant at OMC, Carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications Clause 401 of MORTH V Revision.(I No-20.5,P No-153)								
	AGB Layout Mn Rd from Hesarghatta Rd (80feet Road)	2	426.00	7.50	0.15	958.50			
	1st Cross frm AGB Layout mn (RHS Up to Dead End)	1	35.00	10.00	0.15	52.50			
						1011.00	**Cum**	**1994.92**	**2016864.12**
12	KSRRB M400-17. Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to **wet mix macadam** specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications(P.No-155,I No-20.18)								
	AGB Layout Mn Rd from Hesarghatta Rd (80feet Road)	2	426.00	7.50	0.225	1437.75			
	1st Cross frm AGB Layout mn (RHS Up to Dead End)	1	35.00	10.00	0.225	78.75			
						1516.50	**Cum**	**2001.28**	**3034941.12**
13	KSRRB M500-6. Providing and applying **primer coat** with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications Clause 502 of MORTH V revision(P.No-158,I No-21.6)								
	AGB Layout Mn Rd from Hesarghatta Rd (80feet Road)	2	426.00	7.50		6390.00			
	1st Cross frm AGB Layout mn (RHS Up to Dead End)	1	35.00	10.00		350.00			
						6740.00	**Sqm**	**29.68**	**200043.20**
14	KSRRB 500-7. Providing and **applying tack coat** using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM complete as per specifications (P.No-161,I No-21.7)								
	AGB Layout Mn Rd from Hesarghatta Rd (80feet Road)	2	426.00	7.50		6390.00			

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	1st Cross frm AGB Layout mn (RHS Up to Dead End)	1	35.00	10.00		350.00			
						6740.00	**Sqm**	**12.72**	**85,732.80**
5	KSRRB M500-17. Providing and laying **dense graded bituminous macadam** using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications Clause 505 of MORTH V revisionusing 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen (P.No-160,I No-21.17.6)								
	AGB Layout Mn Rd from Hesarghatta Rd (80feet Road)	2	426.00	7.50	0.05	319.50			
	1st Cross frm AGB Layout mn (RHS Up to Dead End)	1	35.00	10.00	0.05	17.50			
						337.00	**Cum**	**6858.20**	**2311213.40**
6	KSRRB M500-19. Providing and laying **bituminous concrete** using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications Clause 507 of MORTH V revision using40/60 TPH capacity H.M.P. with Mechanical Paver Gr-II (30 mm to 45 mm) with 5.4% VG-30 Bitumen(P.No-162,I No-21.22.6)								
	AGB Layout Mn Rd from Hesarghatta Rd (80feet Road)	2	426.00	7.50	0.04	255.60			
	1st Cross frm AGB Layout mn (RHS Up to Dead End)	1	35.00	10.00	0.03	10.50			
						266.10	**Cum**	**7911.84**	**2105340.62**
7	KSRRB M800-13.**Road Marking with Hot Applied Thermoplastic Compound** with Reflectrising Glass Beads on Bituminous Surface/ Concrete Surface: Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 standards specified. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803(P.No-182,I No-24.15)								
	AGB Layout Mn Rd from Hesarghatta Rd (80feet Road)	5.0	426.00	0.10		213.00			
	1st Cross frm AGB Layout mn (RHS Up to Dead End)	3	35.00	0.10		10.50			
						223.50	**Sqm**	**454.74**	**101634.39**
								Total Construction Cost	**16893352.75**
								Towards GST 12%	**2027202.33**
								Towards KRIDL Charges 4.5%	**760200.87**

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
						310,000-00		DPR & PMC Cost 2%	337538.82
						19990755.96		Sub Total	19999175.22
						9244-04		Utility Shifting,Miscellaneous and Rounding off	824.78
								GRAND TOTAL	20000000.00

Certificate

1. The workspot was inspected and works is found to be necessary.
2. The area comes within the Bruhat Bangalore Mahanagara Palike limits.
3. The rates adopted based on the PWD SR,Bangalore circle for year 2018-2019.and Data Rates

SILICON CONSULTING ENGINEERS

Assistant Engineer
Ward No-12
BBMP Bangalore

Asst. Executive Engineer,
Shettyhalli Sub Division
BBMP Bangalore

Executive Engineer,
Dasarahalli Division
BBMP Bangalore

ನಂ. EE/AS/172/18-19 ದಿನಾಂಕ : 20.02.2019.

ರೂ. 200000000=00 (Two Hundred Lakhs only)

ಅಂದಾಜು ಪಟ್ಟಿಗೆ ಆಡಳಿತಾತ್ಮಕ ಮಂಜೂರಾತಿ ನೀಡಿದೆ

ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ.ದಾಸರಹಳ್ಳಿ ವಿಭಾಗ
ದಾಸರಹಳ್ಳಿ ವಲಯ, ಬೆಂಗಳೂರು.

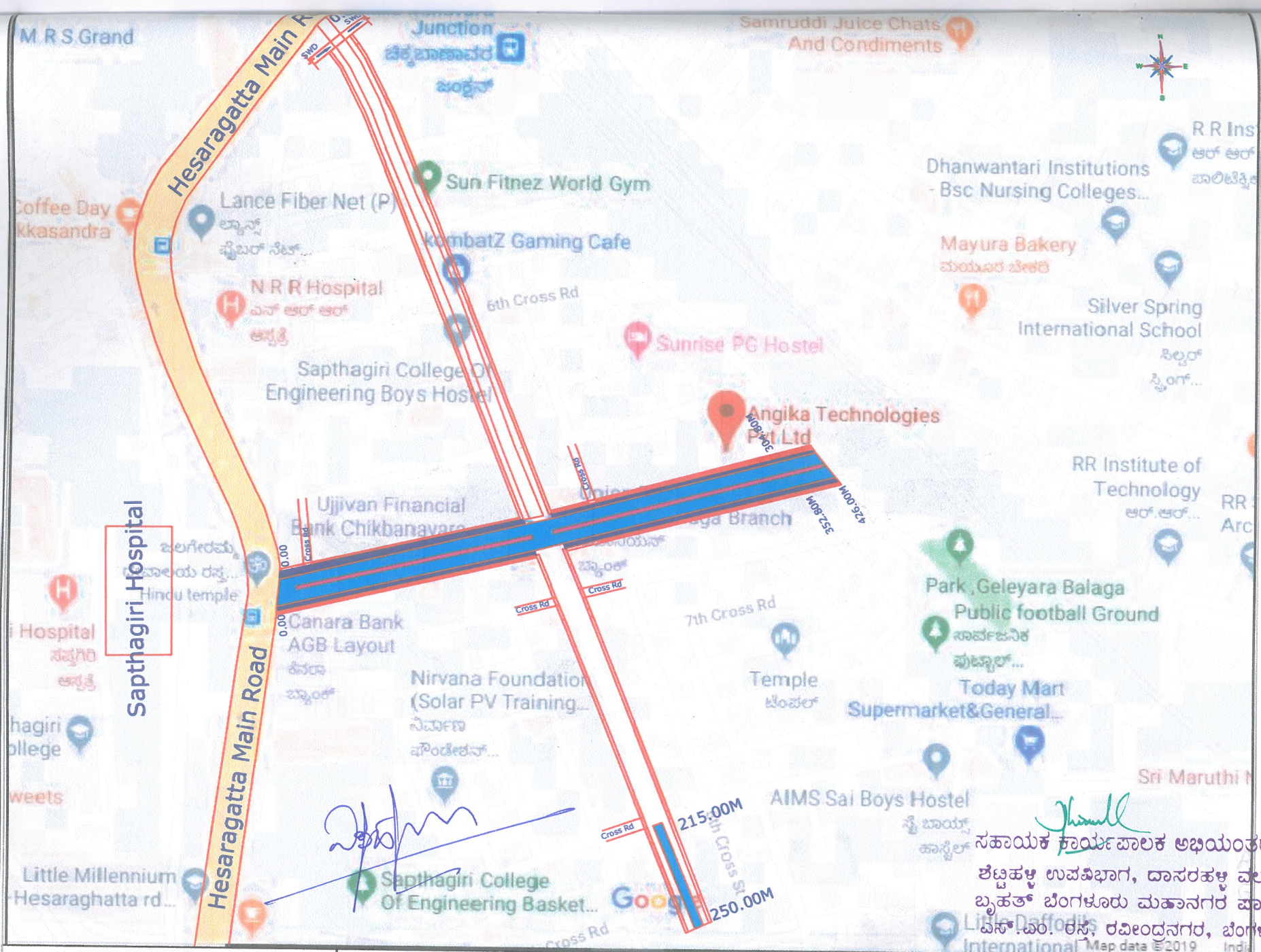
ನಂ.CE/DZ/TS/192/18-19 ದಿನಾಂಕ : 22/02/2019

ರೂ.200.00 Lakhs/- (Rs Two Hundred Lakhs only)

ಗಳ ಅಂದಾಜು ಪಟ್ಟಿಗೆ ತಾಂತ್ರಿಕ ಮಂಜೂರಾತಿ ನೀಡಿದೆ.

ತಾಂತ್ರಿಕ ಸಹಾಯಕರು

ಮುಖ್ಯ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ.
ದಾಸರಹಳ್ಳಿ ವಲಯ, ಬೆಂಗಳೂರು.



CLIENT:
BRUHAT BANGALORE MAHANAGARA PALIKE

PROJECT
Improvements to roads and drains at Doddbettahalli layout in Ward No. 03

Dwg Title:
PLAN

MEDIAN
CC Drain
Footpath
ASPHALT ROAD

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ, ದಾಸರಹಳ್ಳಿ ವಲಯ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಎಸ್.ಎಂ. ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು